

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-54. (Canceled)

55. (Currently Amended) A method for generating a cell of a blood vessel in a mammal, the method comprising administering culture expanded autologous or allogeneic bone marrow stromal cells to said mammal, wherein said cells differentiate into cells of a blood vessel in said mammal, thereby generating a blood vessel.

56. (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are administered to said mammal suffering from a disease, disorder, or condition characterized by a defect in a blood vessel.

57. (Previously Presented) The method of claim 55, wherein said mammal is a human.

58. (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are human cells.

59. (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are administered systemically to said mammal.

60. (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are administered intravenously to said mammal.

61. (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are administered intra-arterially to said mammal.

62. (Previously Presented) The method of claim 55, wherein said bone marrow stromal cells are administered intraperitoneally to said mammal.

63.-77. Canceled.

78. (Previously Presented) A method for generating a cell of a blood vessel in a mammal, the method comprising administering culture expanded autologous or allogeneic bone marrow stromal cells to said mammal, wherein said cells differentiate into cells of a blood vessel in said mammal, thereby generating the cell of a blood vessel.

79. (Previously Presented) The method of claim 78, wherein said bone marrow stromal cells are administered to said mammal suffering from a disease, disorder, or condition characterized by a defect in a blood vessel.

80. (Previously Presented) The method of claim 78, wherein said mammal is a human.

81. (Previously Presented) The method of claim 78, wherein said bone marrow stromal cells are human cells.

82. (Previously Presented) The method of claim 78, wherein said bone marrow stromal cells are administered systemically to said mammal.

83. (Previously Presented) The method of claim 78, wherein said bone marrow stromal cells are administered intravenously to said mammal.

84. (Previously Presented) The method of claim 78, wherein said bone marrow stromal cells are administered intra-arterially to said mammal.

85. (Previously Presented) The method of claim 78, wherein said bone marrow stromal cells are administered intraperitoneally to said mammal.